# BTEC Assignment Brief

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| **Qualification** | Pearson BTEC International Level 3 Diploma in Construction and the Built Environment<br>Pearson BTEC International Level 3 Diploma in Civil Engineering<br>Pearson BTEC International Level 3 Diploma in Building Services Engineering<br>Pearson BTEC International Level 3 Extended Diploma in Construction and the Built Environment<br>Pearson BTEC International Level 3 Extended Diploma in Civil Engineering<br>Pearson BTEC International Level 3 Extended Diploma in Building Services Engineering |
| **Unit number and title** | **Unit 33: Offsite and Onsite Construction Methods** |
| **Learning aim(s)** (For NQF only) | **C Investigate the potential benefits of a specific method of construction for a given project.** |
| **Assignment title** | **Investigation of potential benefits for a Project** |
| **Assessor** | |
| **Issue date** | |
| **Hand in deadline** | |

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| **Vocational Scenario or Context** | You have been employed as a trainee engineer in the local office of a large modern design company. The team you are working with is keen to develop and use innovative technologies, processes and materials to create more efficient, safer and sustainable buildings. With the current international housing shortages and affordability predicament the need to embrace new technology has never been greater. There are many different drivers for using these innovative technologies and the company is keen to investigate all the options to plan and adapt for the future. |

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| **Task 1** | Following on from your initial report your mentor has identified a specific project for a client which you must use the knowledge you have gained to select and justify a suitable method of construction that meets the needs and constraints of the client's project.<br>(*Tutor to agree suitable project with specific parameters and constraints to enable learners to complete assignment)*<br><br>**To do this**:<br>• Explain how the different drivers influence the identified project.<br>• Investigate the parameters for the agreed project and explain the possible benefits of the construction methods.<br>• Research and select a suitable construction method which addresses the project parameters.<br>• Justify how the chosen construction method satisfied the client's needs and project constraints. |
| **Checklist of evidence required** | A research portfolio on methods of construction and their suitability for a given construction project. |

| **Criteria covered by this task:** | |
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| Unit/Criteria reference | To achieve the criteria, you must show that you are able to: |
| 33/C.D3 | Justify how the selection of a method of construction meets the needs and constraints of the brief. |
| 33/C.M3 | Assess the ways in which a selected method of construction addresses project parameters. |
| 33/C.P5 | Outline the drivers that influence a given construction project. |
| 33/C.P6 | Explain the potential benefits of construction methods for a given project, based on project parameters. |

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| **Sources of information to support you with this Assignment** | Quale, John D., Smith, Ryan E. “Offsite Architecture: constructing the future” 2017 Published by Routledge ISBN 978-1-138-82139-2<br><br>Aitchison, M. “Prefab Housing and the Future of Building: Product to Process 2018” Published by Lund Humphries ISBN 978-1-848-22218-2<br><br>Lawson, M., Ogden, R., Goodier, C. “Design in Modular Construction” 2014 Published by CRC Press ISBN 978-0-415-55450-3<br><br>Luntz, R., Tanney, J. “The Modern Modular: The Prefab Houses of Resoluton: 4 Architecture” 2012 Published by Princeton Architectural Press ISBN 978-1-616-89051-3 |
| **Other assessment materials attached to this Assignment Brief** | N/A |